

Harsh Kumar

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Education Graphic Era Deemed to be University Dehradun, Uttarakhand Bachelor of Technology in Computer Science and Engineering (GPA: 8.73 / 10.00) Sep 2021- Present Kendriya Vidyalaya Shahjahanpur, Uttarpradesh C.B.S.E (12th) (89.4 %) April 2020 – March 2021 Kendriya Vidyalaya Shahjahanpur, Uttarpradesh C.B.S.E (10th) (87.4 %) April 2018 – March 2019 Projects

Multiplayer Chess Game | Node.js, Express.js, Socket.IO, JS, Tailwind CSS June 2024 - July 2024 • Developed a real-time multiplayer chess game with 100% seamless gameplay using Node.js, Express.js, and Socket.IO to enable efficient server-client communication. •

Designed a responsive interface with Tailwind CSS and JavaScript for a seamless user experience. • Optimized game performance for real-time synchronization and low-latency gameplay. Live Link: Play Chess Online GitHub: Code Virtual

Mouse | OpenCV, MediaPipe, PyAutoGUI, Python May 2024 - June 2024 •

Implemented a sophisticated hand gesture-based cursor control system using OpenCV, MediaPipe, PyAutoGUI, and pynput, achieving precise movement and control. • Enabled precise cursor control with single-click and double-click through gesture recognition. • Integrated a screenshot capture feature, expanding the system's capabilities. GitHub: Code Algorithm Visualizer | React.js, JavaScript July

2024 - Aug 2024 • Created an interactive algorithm visualizer in React.js for key graph algorithms: Dijkstra's, BFS, DFS, Bellman-Ford, and Kruskal's. • Integrated dynamic visualizations to represent algorithm execution, enhancing understanding of graph traversal. • Improved user experience with smooth animations and intuitive controls. Live Link: Visualizer GitHub: Code Speech Translator | React.js, JS, APIs for

speech-to-text and translation Dec 2023 - Jan 2024 • implemented a React-based web application for high-accuracy speech-to-text conversion with integrated multi-language translation using modern APIs. • Integrated multi-language translation features to convert text into various languages. • Optimized real-time translation for seamless user experience and global accessibility. Live Link: Speech

Translator GitHub: Code Technical Skills Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, PHP Frameworks: React, Node.js Developer Tools: Git, Github, Google Cloud Platform, VS Code, Visual Studio, Eclipse Libraries: pandas, NumPy, Opencv, mediapipe Soft skills and Areas of Interest: Problem Solving, Interpersonal Skills. Database: MySQL. Scholastic Achievements Solved: 800+ problems combinely on Leetcode and GFG. Leetcode: Link GFG: Link Relevant Coursework Computer Science: Data structures and Algorithms, Object Oriented Programming, Database Management System, Operating System, Computer Networks.